



April 25, 2006

Santa Rosa Associates II
c/o INDUSTRIAL REALTY CO. of CA.
1091 Industrial Road Suite 101
San Carlos, California 94070-4118

SUBJECT: Groundwater Monitoring - First Quarter 2006
3842 Finley Avenue
Santa Rosa, California

Dear Sirs:

Atlas Engineering Services, Incorporated (Atlas) respectfully submits the following report on groundwater monitoring conducted during the first quarter of 2006 at 3842 Finley Avenue in Santa Rosa, California. The scope of work completed includes sampling of three (3) monitor wells and one (1) set of water level measurements at the three (3) monitor wells, as required by the North Coast Regional Water Quality Control Board (NCRWQCB) "Monitoring and Reporting Program No. R1-2002-0052 (issued May 10, 2002)". Attached to this report are copies of the field notes, chain-of-custody form, and lab reports.

Introduction

The above-referenced site is reported to have formerly contained underground storage tanks (USTs) used for aviation gasoline. Three (3) monitor wells (MW-1, MW-2, and MW-3) are present on the site (Figure 2). Prior to August 1997, monitoring was conducted by other consultants. This report documents sampling of monitor wells MW-1, MW-2, and MW-3, and water level measurements at MW-1, MW-2, and MW-3 conducted at the site in the first quarter of 2006 by Atlas. Monitor wells MW-1, MW-2, and MW-3 were sampled on February 16, 2006. Water level measurements at MW-1, MW-2, and MW-3 were also taken on February 16, 2006.

Purging

On February 16, 2006, all three (3) monitor wells were purged prior to sampling.

MW-1: Prior to purging, depth to water (DTW) was measured at four and fifty-one one-hundredths (4.51) feet below the top of casing (TOC). A two-inch (2") diameter submersible pump was used to purge the well. Purge water was discharged into a fifty-five (55) gallon drum for volume measurement. A total of thirty-five (35) gallons were purged from the well, equal to (3) casing volumes.

MW-2: Prior to purging, DTW was measured at three and sixty one-hundredths (3.60) feet below the TOC. A two-inch (2") diameter submersible pump was used to purge the well. Purge water was discharged into a fifty-five (55) gallon drum for volume measurement. A petroleum odor was noted in the purged groundwater. A total of thirty-five (35) gallons were purged from the well, slightly more than three (3) casing volumes.



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MW-3: Prior to purging, DTW was measured at four and seventeen one-hundredths (4.17) feet below the TOC. A two-inch (2") diameter submersible pump was used to purge the well. Purge water was discharged into a fifty-five (55) gallon drum for volume measurement. A total of forty (40) gallons were purged from the well, slightly more than three (3) casing volumes.

Sampling

Atlas waited to collect a groundwater sample until the water level had recovered to eighty percent (80%) of its original level. Then a new, clean polyethylene bailer was used to remove a volume of water from the well for collection of a sample. Three (3) volatile organic analysis (VOA) vials, each containing preservative, were filled with groundwater from the bailer. All of the VOA vials were labeled with the date, location, and sampler, prior to storage on blue-ice in a cooler. Water generated by purging and sampling was placed in a storage tank pending sample analysis.

Laboratory Analyses

The sample containers were transported under chain of custody (see attached) to Entech Analytical Labs, Inc., a state certified laboratory, for analyses. All samples were analyzed for Total Petroleum Hydrocarbons as gas (TPH-gas) by EPA Method 5030C GC-MS, and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260B.

Copies of the lab reports are attached. Sample results are presented in Table 1 with previous results.

MW-1: The EPA Method 5030C GC-MS and 8260B analyses for the MW-1 groundwater sample reported no detectable TPH-gas, benzene, toluene, ethylbenzene, or xylenes.

MW-2: The EPA Method 5030C GC-MS and 8260B analyses for the MW-2 groundwater sample reported 3.30 milligrams per liter (mg/L) TPH-gas, 440 micrograms per liter (ug/L) benzene, 76 ug/L ethylbenzene, and 16 ug/L xylenes. The lab reported no detectable toluene.

MW-3: The EPA Method 5030C GC-MS and 8260B analysis for the MW-3 groundwater sample reported 0.03 mg/L TPH-gas. The lab reported no detectable benzene, toluene, ethylbenzene, or xylenes.

Quality Control

Quality control is included in the attached lab reports.



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Horizontal Hydraulic Gradient

Immediately upon arrival at the site, and prior to purging and sampling, DTW measurements were taken at all three (3) wells by Atlas on February 16, 2006 using an electronic well sounder (see attached field notes). To calculate the horizontal hydraulic gradient, Atlas used TOCs referenced to Mean Sea Level (MSL) (Table 3) and casing coordinates (Table 2) surveyed by Atlas using global positioning survey (GPS) equipment on August 18, 2004. The water surface elevations (WSEs) were calculated as the difference between TOC and DTW (Table 3).

Using such data, the horizontal hydraulic gradient was calculated for February 16, 2006 to be twelve ten-thousandths (0.0012) foot per foot in a direction approximately one hundred ninety-six (196) degrees clockwise from north, or approximately towards the south (Table 4; Figure 2).

Summary and Conclusions

This report has been prepared to document quarterly groundwater monitoring conducted at 3842 Finley Avenue, in Santa Rosa, California (Figure 1) during the first quarter of 2006. The sampling and analyses were conducted in accordance with the requirements of the NCRWQCB "Monitoring and Reporting Program No. R1-2002-0052". In accordance therewith, monitor wells MW-1, MW-2, and MW-3 were sampled on February 16, 2006.

Analysis of the MW-1 groundwater sample reported no detectable TPH-gas, benzene, toluene, ethylbenzene, or xylenes (Table 1).

Analyses of the MW-2 groundwater sample reported 3.30 mg/L TPH-gas, 440 ug/L benzene, 76 ug/L ethylbenzene, and 16 ug/L xylenes. No toluene was detected.

Analysis of the MW-3 groundwater sample reported 0.03 mg/L TPH-gas.

Water level measurements were collected at all three (3) wells (Table 3). The horizontal hydraulic gradient was calculated for February 16, 2006 to be twelve ten-thousandths (0.0012) foot per foot in a direction approximately one hundred ninety-six (196) degrees clockwise from north, or approximately towards the south.

Recommendations

In accordance with "Monitoring and Reporting Program No. R1-2002-0052" issued by the NCRWQCB for the site, Atlas recommends sampling of monitor well MW-2 during the next quarter, and collection of water level measurements from all three (3) wells for use in determining the horizontal hydraulic gradient.

If separate phase compounds are present in MW-2 groundwater during the second quarter 2006 sampling event, Atlas also recommends sampling and analysis of MW-2 groundwater for SVOCs by EPA Method 8270C during the second quarter 2006 to verify the phthalates detected in the first quarter 2005.



Santa Rosa Associates II
April 25, 2006

Please call me at (831) 426-1440 if you have any questions or require additional information.

Sincerely,

Frederick A. Yukic, MS, PE
Principal Engineer



cc: Mr. Stephen Bargsten, NCRWQCB
Mr. Gerald Vincent, USACE

Table 1.
Water Analytical Results
Santa Rosa Air Center
3842 Finley Avenue
Santa Rosa, California

Location	Date	TPH-gas	TPH-avgas	TEPH	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	Semi Volatile Organics
		mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Overex.	4/20/1992	0.13	--	--	1.7	ND	0.8	ND	--	--
MW-1	3/4/1994	0.09	--	--	ND	0.5	ND	0.7	--	--
	6/30/1994	0.26	--	--	ND	ND	ND	ND	--	--
	10/5/1994	ND	--	--	ND	ND	ND	ND	--	--
	12/15/1994	ND	--	--	ND	ND	ND	ND	--	--
	6/21/1995	0.15	--	--	ND	11.0	3.3	1.5	--	--
	9/25/1995	0.24	--	--	1.4	ND	ND	ND	--	--
	3/8/1996	0.12	--	--	0.89	ND	ND	ND	--	--
	12/24/1996	0.059	--	--	ND	ND	ND	ND	--	--
	4/14/1997	0.055	--	--	ND	ND	ND	ND	--	--
	7/16/1997	0.053	--	--	ND	ND	ND	ND	--	--
	8/19/1997	0.12	--	--	ND	ND	ND	ND	ND	--
	11/14/1997	0.055	--	--	ND	ND	ND	ND	ND	--
	2/17/1998	ND	--	--	ND	ND	ND	ND	ND	--
	5/14/1998	0.12	--	--	ND	ND	ND	ND	ND	--
	11/19/1998	ND	--	--	ND	ND	ND	ND	ND	--
	5/18/1999	ND	0.072	--	ND	ND	ND	ND	ND**	--
	11/23/1999	ND	ND	--	ND	ND	ND	ND	ND**	--
	5/16/2000	ND	ND	--	ND	ND	ND	ND	ND**	--
	11/21/2000	ND	ND	--	ND	ND	ND	ND	ND	--
	6/4/2001	0.064	--	--	ND	ND	ND	ND	ND	--
	12/8/2001	0.114	--	--	ND	2.2	ND	2.9	--	--
	5/17/2002	ND	--	--	ND	ND	ND	ND	--	--
	2/20/2003	ND	--	--	ND	ND	ND	ND	--	--
	2/28/2004	ND	--	--	ND	ND	ND	ND	ND	--
	2/17/2005	ND	--	--	ND	ND	0.6	2.5	--	ND
	2/16/2006	ND	--	--	ND	ND	ND	ND	--	--

Notes: * = by EPA Method 8240

** = by EPA Method 8260

*** = chromatogram pattern is not typical of fuel

Table 1.
Water Analytical Results
Santa Rosa Air Center
3842 Finley Avenue
Santa Rosa, California

Location	Date	TPH-gas	TPH-avgas	TEPH	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	VOCs	Diesel Fuel #2	Kerosene	Motor Oils	Semi Volatile Organics	Stoddard
		mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-2	3/4/1994	1.3	--	--	46.	26.	14.	29.	--	--	--	--	--	--	--
	6/30/1994	2.2	--	--	ND	ND	ND	ND	--	--	--	--	--	--	--
	10/5/1994	0.32	--	--	150.	1.7	4.4	5.	--	--	--	--	--	--	--
	12/15/1994	0.58	--	--	57.	ND	ND	ND	--	--	--	--	--	--	--
	6/21/1995	3.6	--	--	1200.	5.9	140.	37.	--	--	--	--	--	--	--
	9/25/1995	4.1	--	--	1300.	7.1	150.	28.	--	--	--	--	--	--	--
	3/8/1996	8.6	--	--	2600.	10.	270.	46.	--	--	--	--	--	--	--
	12/24/1996	8.5	--	--	3100.	9.4	350.	33.	--	--	--	--	--	--	--
	4/14/1997	9.1	--	--	3200.	11.	310.	40.	--	--	--	--	--	--	--
	7/16/1997	4.8	--	--	1800.	16.	130.	11.	--	--	--	--	--	--	--
	8/19/1997	2.1	--	--	290.	ND	ND	ND	ND	--	--	--	--	--	--
	11/14/1997	3.7	--	--	220.	ND	6.	2.6	ND	--	--	--	--	--	--
	2/17/1998	1.5	--	ND	97.	ND	1.	0.79	ND	--	--	--	--	--	--
	5/14/1998	1.5	--	--	140.	ND	3.3	0.71	41.	--	--	--	--	--	--
	8/18/1998	2.5	--	--	610.	ND	ND	ND	ND	--	--	--	--	--	--
		--	--	--	530*	ND*	ND*	ND*	ND*	ND*	--	--	--	--	--
	11/19/1998	3.2	--	--	480.	0.76	8.	4.3	15.	--	--	--	--	--	--
		--	--	--	--	--	--	--	ND**	--	--	--	--	--	--
	2/11/1999	ND	0.16	--	72.	1.1	0.81	ND	ND**	--	--	--	--	--	--
	5/18/1999	ND	2.0	--	370.	ND	4.5	2.9	ND**	--	--	--	--	--	--
	8/17/1999	2.3	ND	--	490.	24.	15.	8.3	ND**	--	--	--	--	--	--
	11/23/1999	3.6	ND	--	310.	19.	10.	ND	ND**	--	--	--	--	--	--
	1/13/2000	2.5	ND	--	120.	3.3	2.2	1.5	ND**	--	--	--	--	--	--
	5/16/2000	2.7	ND	--	380.	11.	22.	19.	ND**	--	--	--	--	--	--
	8/24/2000	1.0	ND	--	400.	ND	6.6	ND	ND**	--	--	--	--	--	--
	11/21/2000	2.3	1.8	--	200.	4.4	4.1	3.4	34.	--	--	--	--	--	--
	2/26/2001	ND	ND	--	ND	ND	ND	ND	ND	--	--	--	--	--	--
	5/22/2001	4.7	--	--	200.	32.	1.	5.	ND**	--	--	--	--	--	--
	9/1/2001	2.0	--	--	390.	11.	8.	2.	--	--	--	--	--	--	--
	12/8/2001	9.67	--	--	1190.	46.5	1050.	506.	--	--	--	--	--	--	--
	2/28/2002	7.63	--	--	2250.	48.6	448.	231.	--	--	--	--	--	--	--
	5/17/2002	9.08	--	--	2180.	37.8	470.	161.	--	--	--	--	--	--	--
	8/23/2002	5.45	--	--	1000.	35.8	195.	77.8	--	--	--	--	--	--	--
	11/21/2002	4.85	--	--	920.	35.1	297.	131.	--	--	--	--	--	--	--
	2/20/2003	4.35	--	--	1190.	11.	201.	83.2	--	--	--	--	--	--	--
	5/23/2003	8.16	--	--	1220.	28.2	436.	110.	--	--	--	--	--	--	--
	8/15/2003	5.21	--	--	938.	20.	200.	50.	--	--	--	--	--	--	--
	11/20/2003	7.33	--	--	1360.	24.1	345.	117.	--	--	--	--	--	--	--
	2/28/2004	3.61	--	--	524.	7.5	125.	42.1	ND	--	--	--	--	--	--
	5/20/2004	4.28	--	--	934.	9.7	73.7	39.7	ND	--	--	--	--	--	--
	8/18/2004	1.64	--	--	852.	12.9	117.	33.3	--	--	--	--	--	--	--
	10/29/2004	8.22	--	--	2100.	14.7	424.	123.	--	--	60****	129****	11*****	--	--
	2/17/2005	4.29	--	--	547.	18.8	124.	31.2	--	--	--	--	--	0.146	--
	5/17/2005	1.82	--	--	637.	3.1	97.5	22.5	--	--	0.11****	0.12****	ND	--	0.14****
	9/1/2005	4.1	--	--	1000.	ND	78.	14.	--	--	ND	290***	ND	--	ND
	11/17/2005	5.3	--	--	1100.	ND	23.	5.8	--	--	ND	ND	ND	--	ND
	2/16/2005	3.3	--	--	440.	ND	76.	16.	--	--	--	--	--	--	--

Notes: * = by EPA Method 8240

** = by EPA Method 8260

*** = chromatogram pattern is not typical of fuel

**** = chromatogram pattern is not typical of diesel or kerosene, due to gasoline overlap

***** = chromatogram pattern is not typical of motor oils, due to single peaks

Table 1.
Water Analytical Results
Santa Rosa Air Center
3842 Finley Avenue
Santa Rosa, California

Location	Date	TPH-gas	TPH-avgas	TEPH	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	VOCs
		mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-3	3/4/1994	ND	--	--	ND	ND	ND	ND	--	--
	6/30/1994	0.84	--	--	ND	ND	ND	ND	--	--
	10/5/1994	ND	--	--	ND	ND	ND	ND	--	--
	12/15/1994	ND	--	--	ND	ND	ND	ND	--	--
	6/21/1995	ND	--	--	0.8	ND	ND	ND	--	--
	9/25/1995	ND	--	--	ND	ND	ND	ND	--	--
	3/8/1996	ND	--	--	ND	ND	ND	ND	--	--
	12/24/1996	0.052	--	--	1.1	ND	ND	0.69	--	--
	4/14/1997	ND	--	--	ND	ND	ND	ND	--	--
	7/16/1997	0.056	--	--	ND	ND	ND	ND	--	--
	8/19/1997	0.9	--	--	ND	ND	ND	ND	ND	--
	11/14/1997	0.19	--	--	ND	ND	ND	ND	ND	--
	2/17/1998	ND	--	--	0.7	ND	ND	ND	ND	--
	5/14/1998	ND	--	--	ND	ND	ND	ND	ND	--
	11/19/1998	0.058	--	--	ND	ND	ND	ND	ND	--
	5/18/1999	ND	0.082	--	ND	ND	ND	ND	ND**	--
	11/23/1999	0.066***	ND	--	ND	ND	ND	ND	ND**	--
	5/16/2000	ND	ND	--	ND	ND	ND	ND	ND**	--
	11/21/2000	0.077***	ND	--	ND	ND	ND	ND	ND	--
	6/4/2001	0.1	--	--	ND	ND	ND	ND	ND**	--
	12/8/2001	0.091	--	--	ND	ND	ND	ND	--	--
	5/17/2002	0.06	--	--	ND	ND	ND	ND	--	--
	2/20/2003	ND	--	--	0.6	ND	ND	ND	--	--
	2/28/2004	0.059	--	--	ND	ND	ND	ND	ND	--
	2/17/2005	0.081	--	--	4.5	ND	ND	ND	--	--
	2/16/2006	0.030	--	--	ND	ND	ND	ND	--	--

Notes: * = by EPA Method 8240

** = by EPA Method 8260

*** = chromatogram pattern is not typical of fuel

Table 2
Monitor Well Coordinates
3842 Finley Avenue
Santa Rosa, California

Well	Easting	Northing
MW-1	5,913,720.80	2,346,339.39
MW-2	5,913,598.50	2,346,408.63
MW-3	5,913,567.51	2,346,287.18

Notes: California Coordinates measured on August 18, 2004
by Atlas using GPS equipment.

Table 3
Water Level Measurements
3842 Finley Avenue
Santa Rosa, California

Well	Top of Casing (TOC)	Depth to Water Elevation (DTW)	Water Surface Elevation (WSE)
<u>February 16, 2006</u>			
MW-1	97.60	4.51	93.09
MW-2	96.73	3.60	93.13
MW-3	97.15	4.17	92.98

Notes: Elevations referenced to Mean Sea Level (MSL)
All measurements are in feet.

Table 4.
Horizontal Hydraulic Gradients
3842 Finley Avenue
Santa Rosa, California

Date	Magnitude	Angle from North
4/24/1994	0.001	215
5/27/1994	0.002	232
6/30/1994	0.001	238
7/21/1994	0.0017	237
8/26/1994	0.0016	258
10/5/1994	0.0016	246
10/21/1994	0.002	248
12/15/1994	0.001	149
6/21/1995	0.003	198
9/25/1995	0.002	235
3/8/1996	0.001	164
12/24/1996	0.001	152
4/14/1997	0.002	196
7/16/1997	0.002	255
8/19/1997	0.0016	306
9/16/1997	0.0023	269
10/17/1997	0.0013	321
11/14/1997	0.0015	283
12/18/1997	0.0010	124
1/16/1998	0.0013	144
2/17/1998	0.00044	274
3/12/1998	0.0010	241
4/16/1998	0.0016	239
5/14/1998	0.0022	216
6/16/1998	0.0028	233
8/18/1998	0.0016	244
11/19/1998	0.0014	257
2/11/1999	0.0015	168
5/18/1999	0.0018	236
9/27/1999	0.0030	268
11/23/1999	0.0015	292
1/13/2000	0.0017	260
5/16/2000	0.0022	230
8/24/2000	0.0020	271
11/21/2000	0.0019	287
2/26/2001	0.0007	181
5/22/2001	0.0018	253
9/1/2001	0.0044	295
12/8/2001	0.0076	125
3/26/2002	0.0017	196
5/17/2002	0.0023	224
8/23/2002	0.0087	106
11/21/2002	0.0016	319
2/20/2003	0.0016	170
5/23/2003	0.0016	233
8/15/2003	0.0028	260
11/20/2003	0.0021	265
2/28/2004	0.0017	183
5/20/2004	0.0020	235
8/18/2004	0.0029	260
10/29/2004	0.0019	282

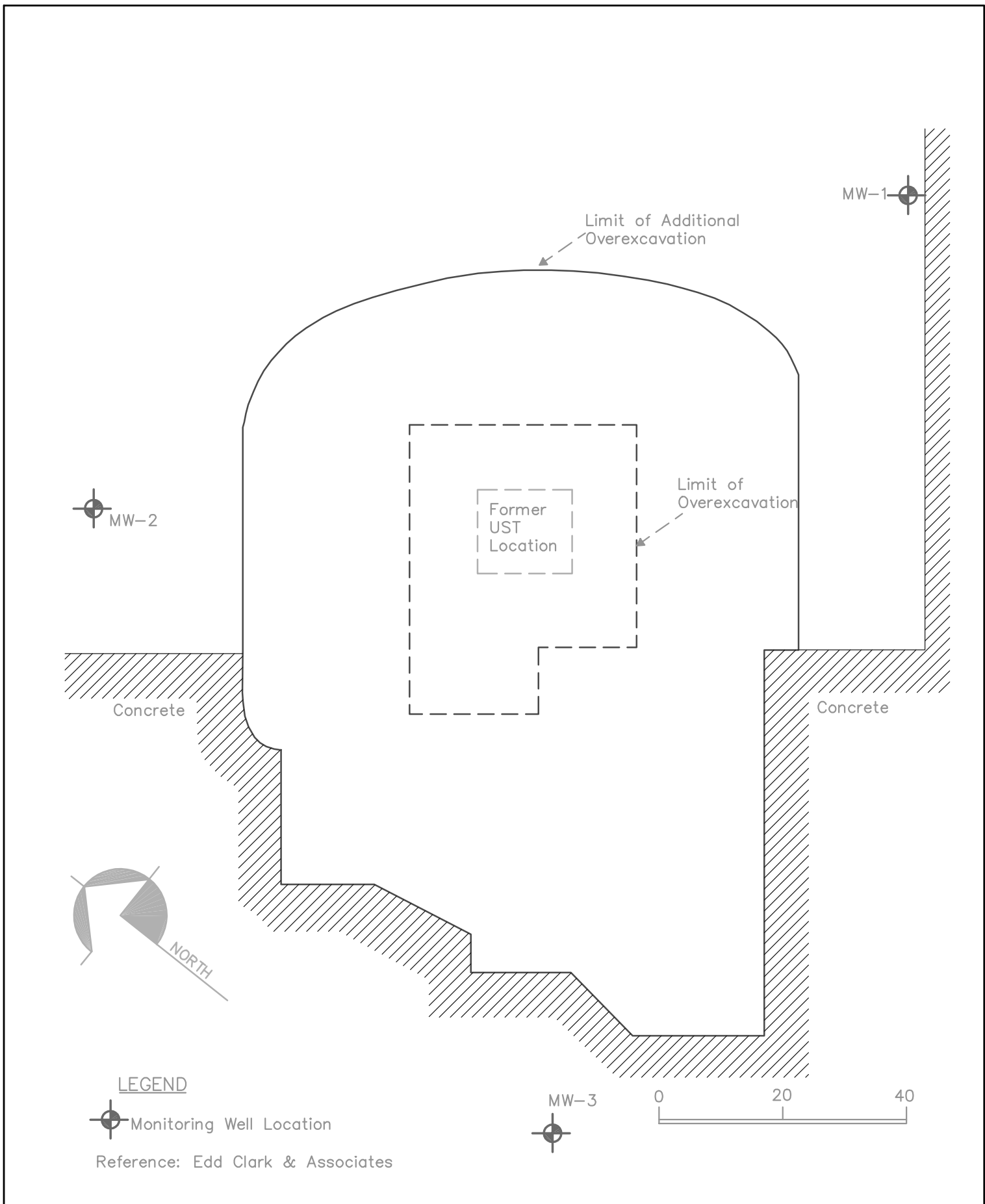
Note: Beginning 8/18/04, gradients calculated
using coordinates determined by Atlas using GPS equipment

Table 4.
Horizontal Hydraulic Gradients
3842 Finley Avenue
Santa Rosa, California

Date	Magnitude	Angle from North
2/17/2005	0.0013	167
5/17/2005	0.0018	213
9/1/2005	0.0070	135
11/17/2005	0.0016	282
2/16/2006	0.0012	196

Note: Beginning 8/18/04, gradients calculated
using coordinates determined by Atlas using GPS equipment





FIELD SHEET

JOB/SITE NAME: SRAC
 WORK DONE BY: JLE

Date: 2/16/06

ACTIVITY: 1/4 GW Monitoring
1st Quarter 2006

EQUIPMENT RENTAL/DRILLER: _____ HOURS _____

NOTES:

TIME	DESCRIPTION												
0630	Left office												
0950	On site, meeting w/ Larry (Groundskeeper)												
1015	Opened wells, strong vapor pressure, allowing to stabilize												
	Checking Water Levels												
	<table border="1"> <thead> <tr> <th>ID</th> <th>DTW</th> <th>DTW</th> </tr> </thead> <tbody> <tr> <td>MW-1</td> <td>4.51</td> <td>4.51</td> </tr> <tr> <td>MW-3</td> <td>4.17</td> <td>4.17</td> </tr> <tr> <td>MW-2</td> <td>3.60</td> <td>3.60</td> </tr> </tbody> </table>	ID	DTW	DTW	MW-1	4.51	4.51	MW-3	4.17	4.17	MW-2	3.60	3.60
ID	DTW	DTW											
MW-1	4.51	4.51											
MW-3	4.17	4.17											
MW-2	3.60	3.60											
	Purged wells using 12 volt pump.												
	Sampled MW-1, then MW-3, then MW-2												
	Sampled MW-2 w/ 12-volt pump from discharge hose. Sampled MW-1 and MW-3 w/ clean, new disposable bailers.												
	Transferred purge water using 5 gallon buckets to onsite Tank												
	Checked MW-2 for F.P. before purging w/ bailer. None observed.												
1400	Left site												

MW-1

DATE 2/16/06
SHEET 1 OF 1

DIA.	X
2"	0.17
4"	0.66
6"	1.5

6"	1.5
----	-----

[illegible]

FINAL DEPTH TO WATER (DTWF) 8.65
 $0.2 (\text{DTWF}) + 0.8 (\text{DTWI}) = \text{DTW FOR 80\% RECOVERY (DTW 80\%R)}$
 $0.2 (\underline{8.65}) + 0.8 (\underline{4.51}) = \underline{5.34} \text{ FT MAX. BEFORE SAMPLING}$

MW-2

DATE 2/16/06
SHEET 1 OF 1

DIA.	X
2"	0.17
4"	0.66
6"	1.5

WELL DEPTH (WD) 21
INITIAL DEPTH TO WATER (DTWI) 3.6
(WD - DTWI) (X GAL/FT) = CASING VOLUME (CV)
(21 - 3.6) (0.66 GAL/FT) = 11.5 GAL/CV
(3 CV) (GAL/CV) = 3 CASING VOLUMES
(3) (11.5) = 34.5 GALLONS NEED TO BE PURGED

[illegible]

FINAL DEPTH TO WATER (DTWF) 13.00
 0.2 (DTWF) + 0.8 (DTWI) = DTW FOR 80% RECOVERY (DTW 80%R)
 0.2 (13.00) + 0.8 (3.6) = 5.48 FT MAX. BEFORE SAMPLING

MW-3

DATE 2/16/06
SHEET 1 OF 1

DIA.	X
2"	0.17
<u>4"</u>	0.66
6"	1.5

2ⁿ

0.17



4"

0.66

6"

1.5

[illegible]
$$0.2 (DTWF) + 0.8 (DTWI) = DTW \text{ FOR } 80\% \text{ RECOVERY (DTW 80\%R)}$$
$$0.2 (8.20) + 0.8 (4.17) = 5.01 \text{ FT MAX. BEFORE SAMPLING}$$

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Fred Yukic

Atlas Engineering Services

P.O. Box 1260

Santa Cruz, CA 95061

Lab Certificate Number: 47949

Issued: 02/27/2006

Project Name: SRAC

Global ID: T060972349

Project Location: Finley Ave, Santa Rosa

Certificate of Analysis - Final Report

On February 17, 2006, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test</u>	<u>Comments</u>
Liquid	Electronic Deliverables EPA 8260B for Groundwater and Water - EPA 624 for Wastewater TPH as Gasoline by GC/MS	

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).

If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Erin Cunniffe
Operations Manager

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Atlas Engineering Services
P.O. Box 1260
Santa Cruz, CA 95061
Attn: Fred Yukic

Project Name: SRAC
Project Location: Finley Ave, Santa Rosa
GlobalID: T060972349

Certificate of Analysis - Data Report

Samples Received: 02/17/2006

Sample Collected by: Client

Lab # : 47949-001 Sample ID: MW-1 Matrix: Liquid Sample Date: 2/16/2006 11:45 AM

EPA 5030C EPA 8260B for Groundwater and Water		EPA 624 for Wastewater		8260Petroleum					
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	2/26/2006	WM2060226
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	2/26/2006	WM2060226
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	2/26/2006	WM2060226
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	2/26/2006	WM2060226
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: MTu	
4-Bromofluorobenzene	89.3		60	- 130				Reviewed by: dba	
Dibromofluoromethane	98.7		60	- 130					
Toluene-d8	98.2		60	- 130					

EPA 5030C GC-MS		TPH as Gasoline - GC-MS							
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	2/26/2006	WM2060226
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: MTu	
4-Bromofluorobenzene	88.1		60	- 130				Reviewed by: dba	
Dibromofluoromethane	94.4		60	- 130					
Toluene-d8	98.2		60	- 130					

Lab # : 47949-002 Sample ID: MW-3 Matrix: Liquid Sample Date: 2/16/2006 12:35 PM

EPA 5030C EPA 8260B for Groundwater and Water		EPA 624 for Wastewater		8260Petroleum					
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	2/26/2006	WM2060226
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	2/26/2006	WM2060226
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	2/26/2006	WM2060226
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	2/26/2006	WM2060226
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: MTu	
4-Bromofluorobenzene	91.0		60	- 130				Reviewed by: dba	
Dibromofluoromethane	103		60	- 130					
Toluene-d8	97.1		60	- 130					

EPA 5030C GC-MS		TPH as Gasoline - GC-MS							
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	30		1.0	25	µg/L	N/A	N/A	2/26/2006	WM2060226
Surrogate	Surrogate Recovery		Control Limits (%)					Analyzed by: MTu	
4-Bromofluorobenzene	89.7		60	- 130				Reviewed by: dba	
Dibromofluoromethane	98.1		60	- 130					
Toluene-d8	97.2		60	- 130					

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Atlas Engineering Services
P.O. Box 1260
Santa Cruz, CA 95061
Attn: Fred Yukic

Project Name: SRAC
Project Location: Finley Ave, Santa Rosa
GlobalID: T060972349

Certificate of Analysis - Data Report

Samples Received: 02/17/2006

Sample Collected by: Client

Lab # : 47949-003 Sample ID: MW-2 Matrix: Liquid Sample Date: 2/16/2006 1:30 PM

EPA 5030C EPA 8260B for Groundwater and Water		EPA 624 for Wastewater		8260Petroleum					
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	440		10	5.0	µg/L	N/A	N/A	2/26/2006	WM2060226
Toluene	ND		10	5.0	µg/L	N/A	N/A	2/26/2006	WM2060226
Ethyl Benzene	76		10	5.0	µg/L	N/A	N/A	2/26/2006	WM2060226
Xylenes, Total	16		10	5.0	µg/L	N/A	N/A	2/26/2006	WM2060226
Surrogate	Surrogate Recovery	Control Limits (%)						Analyzed by: MTu	
4-Bromofluorobenzene	92.0		60	-	130			Reviewed by: dba	
Dibromofluoromethane	102		60	-	130				
Toluene-d8	98.0		60	-	130				

EPA 5030C GC-MS		TPH as Gasoline - GC-MS							
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	3300		10	250	µg/L	N/A	N/A	2/26/2006	WM2060226
Surrogate	Surrogate Recovery	Control Limits (%)						Analyzed by: MTu	
4-Bromofluorobenzene	90.6		60	-	130			Reviewed by: dba	
Dibromofluoromethane	97.4		60	-	130				
Toluene-d8	98.0		60	-	130				

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Method Blank - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2060226

Validated by: dba - 02/27/06

QC Batch Analysis Date: 2/26/2006

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	95.3	60 - 130
Dibromofluoromethane	99.9	60 - 130
Toluene-d8	97.8	60 - 130

Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - 8260Petroleum

QC Batch ID: WM2060226

Reviewed by: dba - 02/27/06

QC Batch ID Analysis Date: 2/26/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	20.6	µg/L	103	70 - 130
Benzene	<0.50	20	21.6	µg/L	108	70 - 130
Chlorobenzene	<0.50	20	21.5	µg/L	108	70 - 130
Methyl-t-butyl Ether	<1.0	20	22.5	µg/L	113	70 - 130
Toluene	<0.50	20	20.5	µg/L	103	70 - 130
Trichloroethene	<0.50	20	21.2	µg/L	106	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	102.0	60 - 130
Dibromofluoromethane	104.0	60 - 130
Toluene-d8	94.3	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.6	µg/L	93.1	9.9	25.0	70 - 130
Benzene	<0.50	20	19.6	µg/L	98.0	9.6	25.0	70 - 130
Chlorobenzene	<0.50	20	19.4	µg/L	97.1	10	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.8	µg/L	94.0	18	25.0	70 - 130
Toluene	<0.50	20	19.6	µg/L	98.2	4.5	25.0	70 - 130
Trichloroethene	<0.50	20	18.6	µg/L	93.0	13	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	98.9	60 - 130
Dibromofluoromethane	101.0	60 - 130
Toluene-d8	94.1	60 - 130

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Method Blank - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM2060226

Validated by: dba - 02/27/06

QC Batch Analysis Date: 2/26/2006

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

Surrogate for Blank % Recovery Control Limits

4-Bromofluorobenzene	94.0	60 - 130
Dibromofluoromethane	95.5	60 - 130
Toluene-d8	97.8	60 - 130

Laboratory Control Sample / Duplicate - Liquid - GC-MS - TPH as Gasoline - GC-MS

QC Batch ID: WM2060226

Reviewed by: dba - 02/27/06

QC Batch ID Analysis Date: 2/26/2006

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	250	279	µg/L	111	65 - 135

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	92.0	60 - 130
Dibromofluoromethane	93.7	60 - 130
Toluene-d8	97.8	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	250	262	µg/L	105	6.1	25.0	65 - 135

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	93.4	60 - 130
Dibromofluoromethane	94.7	60 - 130
Toluene-d8	96.7	60 - 130

June 2004